

IN THE CLAIMS

This listing of claims replaces all prior listings:

1. (Currently Amended) A display device comprising:

a cathode;

an anode;

a plurality of light-emitting units stacked together between said a cathode and said an anode, each of said light-emitting units including at least an organic light-emitting layer; and

a charge generation layer between each two adjacent light-emitting units,

wherein,

each of said light-emitting units includes an organic light-emitting layer, and

said charge generation layer is composed of includes at least one of a complex oxide comprising selected from Li_2SiO_3 , Li_2CO_3 and Cs_2CO_3 at least one alkali metal or alkaline earth metal.

2. (Original) A display device according to claim 1, wherein said charge generation layer is composed of Li_2SiO_3 .

3. (Currently Amended) A display device according to claim 1, wherein said charge generation layer is ~~formed of a mixed layer composed of~~ includes Li_2SiO_3 and a charge transport material.

4. (Currently Amended) A display device according to claim 1, wherein said charge generation layer has a stacked structure comprised of a first layer composed of Li_2SiO_3 and a second ~~mixed~~ layer composed of Li_2SiO_3 and a charge transport material.

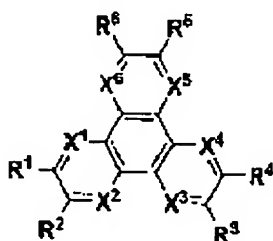
5. (Currently Amended) A display device according to claim 1, wherein said complex oxide in said charge generation layer forms an interfacial layer on an anode side of said charge generation layer.

6. (Cancelled)

7. (Previously Presented) A display device according to claim 1, further comprising an interfacial layer on a cathode side of said charge generation layer that is composed of an organic material having a phthalocyanine skeleton.

8. (Cancelled)

9. (Currently Amended) A display device according to claim 1, wherein said charge generation layer further comprises an organic compound represented by the following formula (1):



..... Formula (1)

wherein R¹ to R⁶ are each independently a substituent selected from a hydrogen atom, a halogen atom, a hydroxyl group, an amino group, an arylamino group, a substituted or unsubstituted carbonyl group having not more than 20 carbon atoms, a substituted or unsubstituted carbonyl ester group having not more than 20 carbon atoms, a substituted or unsubstituted alkyl group having not more than 20 carbon atoms, a substituted or unsubstituted alkenyl group having not more than 20 carbon atoms, a substituted or unsubstituted alkoxy group having not more than 20 carbon atoms, a substituted or unsubstituted aryl group having

not more than 30 carbon atoms, a substituted or unsubstituted heterocyclic group having not more than 30 carbon atoms, a nitrile group, a nitro group, a cyano group, or a silyl group; each two adjacent ones of R^m (m: 1 to 6) may be fused together via a cyclic structure associated therewith; and X^1 to X^6 are each independently a carbon or nitrogen atom.

10. (Currently Amended) A display device according to claim 9, wherein said ~~metal~~complex oxide in said charge generation layer forms an interfacial layer on an anode side of said charge generation layer, and said organic compound forms an intrinsic charge generation layer arranged in contact with said interfacial layer.

11. (Currently Amended) A display device comprising:

a cathode;

an anode;

a plurality of light-emitting units ~~stacked between~~ said a cathode and said an anode, each of said light-emitting units including at least an organic light-emitting layer;

a charge generation layer between ~~each two adjacent~~ light-emitting units; and

a first interfacial layer on an anode side of each charge generation layer, said first interfacial layer comprising a conducting material layer and a layer composed of a fluoride comprising at least one alkali metal or alkaline earth metal and located at an interface on an anode side of each charge ~~generation layer.~~

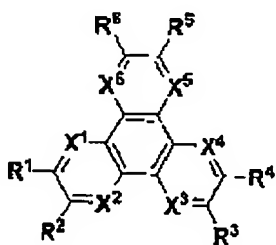
12. (Cancelled)

13. (Currently Amended) A display device according to claim 11 ~~12~~, wherein said conducting material layer comprises at least one of magnesium, silver or aluminum.

14. (Currently Amended) A display device according to claim 11, further comprising a second interfacial layer on a cathode side of said charge generation layer said second interfacial layer ~~that is composed~~ comprised of an organic material having a phthalocyanine skeleton.

15. (Cancelled)

16. (Currently Amended) A display device according to claim 11, wherein said charge generation layer further comprises an organic compound represented by the following formula (1):



.... Formula (1)

wherein R¹ to R⁶ are each independently a substituent selected from a hydrogen atom, a halogen atom, a hydroxyl group, an amino group, an arylamino group, a substituted or unsubstituted carbonyl group having not more than 20 carbon atoms, a substituted or unsubstituted carbonyl ester group having not more than 20 carbon atoms, a substituted or unsubstituted alkyl group having not more than 20 carbon atoms, a substituted or unsubstituted alkenyl group having not more than 20 carbon atoms, a substituted or unsubstituted alkoxyl group having not more than 20 carbon atoms, a substituted or unsubstituted aryl group having not more than 30 carbon atoms, a substituted or unsubstituted heterocyclic group having not more than 30 carbon atoms, a nitrile group, a nitro group, a cyano group, or a silyl group; each two adjacent ones of R^m (m: 1 to 6) may be fused together via a cyclic structure associated therewith; and X¹ to X⁶ are each independently a carbon or nitrogen atom.

17. (Currently Amended) A display device according to claim 16, wherein said ~~interfacial layer is formed of a layer comprising: a fluoride comprising at least one alkali metal or alkaline earth metal; and a conducting material layer; arranged in this order from the side of said anode; wherein, said organic compound forms an intrinsic charge generation layer arranged in contact with said interfacial layer.~~

18. (Currently Amended) A display device comprising:

a cathode;

an anode;

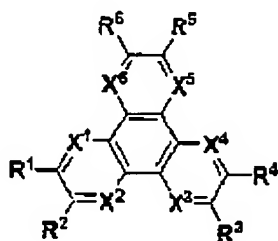
a plurality of light-emitting units stacked ~~together~~ between said a cathode and said an anode, each of said light-emitting units including at least an organic light-emitting layer; and

a charge generation layer ~~held~~ between each two adjacent ones light-emitting units,

wherein,

said charge generation layer includes ~~is formed of~~ a mixed layer of at least one element of alkali metals or alkaline earth metals and at least an one of a complex oxide selected from Li_2SiO_3 , Li_2CO_3 and Cs_2CO_3 of organic material, and an intrinsic charge generation layer, stacked in contact with each other in this order from the side of said anode.

19. (Currently Amended) A display device according to claim 18, wherein said charge generation layer further comprises an organic compound represented by the following formula (1):



.... Formula (1)

wherein R^1 to R^6 are each independently a substituent selected from a hydrogen atom, a halogen atom, a hydroxyl group, an amino group, an arylamino group, a substituted or unsubstituted carbonyl group having not more than 20 carbon atoms, a substituted or unsubstituted carbonyl ester group having not more than 20 carbon atoms, a substituted or unsubstituted alkyl group having not more than 20 carbon atoms, a substituted or unsubstituted alkenyl group having not more than 20 carbon atoms, a substituted or unsubstituted alkoxy group having not more than 20 carbon atoms, a substituted or unsubstituted aryl group having not more than 30 carbon atoms, a substituted or unsubstituted heterocyclic group having not more than 30 carbon atoms, a nitrile group, a nitro group, a cyano group, or a silyl group; each two adjacent ones of R^m (m : 1 to 6) may be fused together via a cyclic structure associated therewith; and X^1 to X^6 are each independently a carbon or nitrogen atom.

20. (Previously Presented) A display device according to claim 18, wherein said alkali metals or alkaline earth metals in said mixed layer amounts to not more than 50% in terms of relative film thickness percentage.

21. (Currently Amended) A display device according to claim 18, further comprising an interfacial layer composed of a fluoride comprising at least one alkali metal or alkaline earth metals. ~~said interfacial layer is arranged at said interface on an anode side of said charge generation layer.~~

22. (Currently Amended) A display device according to claim 18, further comprising an interfacial layer composed of an organic material having a phthalocyanine skeleton, said interfacial layer on a cathode side of said charge generation layer ~~is composed of an organic material having the phthalocyanine skeleton~~.